

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of lapping a medium-opposing surface in a thin-film magnetic head, the method comprising the steps of:  
  
    ~~preparing~~ providing the thin-film magnetic head formed on a support, the thin-film magnetic head comprising a magnetoresistive device for reproducing, an inductive electromagnetic transducer for writing, and a heater for generating heat when energized; and  
  
    polishing a medium-opposing surface of the thin-film magnetic head while energizing the heater.
2. (Original) A method of lapping a medium-opposing surface in a thin-film magnetic head according to claim 1, wherein the magnetoresistive device, inductive electromagnetic transducer, and heater are laminated successively from the support side in the thin-film magnetic head.
3. (Original) A method of lapping a medium-opposing surface in a thin-film magnetic head according to claim 1, wherein the heater is disposed on a surface of the thin-film magnetic head opposite from the support.
4. (Original) A method of lapping a medium-opposing surface in a thin-film magnetic head according to claim 1, the method comprising the steps of:  
  
    cutting the support so as to form a bar including thin-film magnetic heads arranged in a row; and  
  
    polishing medium-opposing surfaces of the thin-film magnetic heads in the bar while energizing the heater.
5. (Original) A method of lapping a medium-opposing surface in a thin-film magnetic head according to claim 4, the method comprising the steps of:

electrically connecting a plurality of heaters of the thin-film magnetic heads to each other; and

polishing the medium-opposing surfaces of the thin-film magnetic heads while energizing all the heaters in the bar with a single power supply.

6. (Original) A method of lapping a medium-opposing surface in a thin-film magnetic head according to claim 4, wherein a plurality of heaters of the thin-film magnetic heads in the bar are energized individually.

7. (Original) A method of lapping a medium-opposing surface in a thin-film magnetic head according to claim 1, the method comprising the steps of:

cutting the support so as to form a bar including thin-film magnetic heads arranged in a row;

cutting the bar so as to form a plurality of head sliders each having a thin-film magnetic head;

mounting the head slider to an arm member so as to form a head gimbal assembly; and

polishing the medium-opposing surface of the thin-film magnetic head in thus obtained state while energizing the heater.

8. (Currently Amended) A method of lapping a medium-opposing surface in a thin-film magnetic head, the method comprising the steps of:

~~preparing~~ providing the thin-film magnetic head formed on a support, the thin-film magnetic head comprising a magnetoresistive device for reproducing and an inductive electromagnetic transducer for writing; and

polishing a medium-opposing surface of the thin-film magnetic head while energizing the electromagnetic transducer to produce a heat effect.

9. (Original) A method of lapping a medium-opposing surface in a thin-film magnetic head according to claim 8, the method comprising the steps of:

cutting the support so as to form a bar including thin-film magnetic heads arranged in a row; and

polishing medium-opposing surfaces of the thin-film magnetic heads in the bar while energizing the electromagnetic transducer.

10. (Original) A method of lapping a medium-opposing surface in a thin-film magnetic head according to claim 9, the method comprising the steps of:

electrically connecting a plurality of electromagnetic transducers of the thin-film magnetic heads to each other; and

polishing the medium-opposing surfaces of the thin-film magnetic heads while energizing all the electromagnetic transducers in the bar with a single power supply.

11. (Original) A method of lapping a medium-opposing surface in a thin-film magnetic head according to claim 9, wherein a plurality of electromagnetic transducers of the thin-film magnetic heads in the bar are energized individually.

12. (Original) A method of lapping a medium-opposing surface in a thin-film magnetic head according to claim 8, the method comprising the steps of:

cutting the support so as to form a bar including thin-film magnetic heads arranged in a row;

cutting the bar so as to form a plurality of head sliders each having a thin-film magnetic head;

mounting the head slider to an arm member so as to form a head gimbal assembly; and

polishing the medium-opposing surface of the thin-film magnetic head in thus obtained state while energizing the electromagnetic transducer.